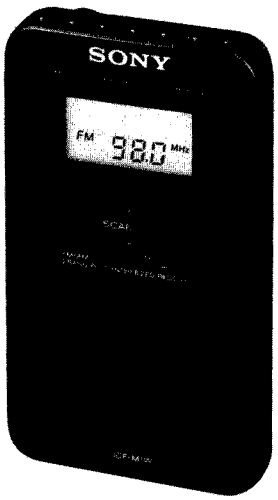
ICF-M1W

SERVICE MANUAL

AEP Model



SPECIFICATIONS

Frequency range	FM: 87.5–108 MHz AM: 531–1,602 kHz
Scan step	FM: 0.05* MHz AM: 9 kHz * The frequency display is raised or lowered by steps of 0.1 MHz. (Example: Frequency 88.05 MHz is displayed as "88.0 MHz".)
Antennas	FM: Earphone cord antenna AM: Built-in ferrite bar antenna
Speaker	3.6 cm ($1^{7}/_{16}$ inches) dia.
Output	Earphone jack
Power output	80 mW (at 10% harmonic distortion)
Power requirements	3 V DC, two R03 (size AAA) batteries
Battery life	Using Sony batteries UM-4 (NU)

Using speaker	FM	Approx. 11 hours
	AM	Approx. 15 hours
Using earphone	FM	Approx. 15 hours
	AM	Approx. 37 hours

Dimensions	Approx. 57.8 × 96.0 × 17.2 mm (w/h/d) ($2^{3}/_{8}$ × $3^{7}/_{8}$ × $^{11}/_{16}$ inches) incl. projecting parts and controls
Weight	Approx. 82 g (2.90 oz) incl. batteries
Supplied accessories	Sony batteries UM-4 (NU) (2) Dynamic earphone (open-air type, 1) Ear adaptor (1) Soft case (1)

FEATURES

- An FM/AM 2-band pocketable radio with quartz-controlled PLL (Phase Locked Loop) synthesizer system.
- Up to 14 stations (7 for each band) can be memorized for button-touch tuning (memory preset tuning).
- The tuned frequency is digitally displayed to make searching of the desired station easier.
- Power saving features — power goes off automatically in about 90 minutes.

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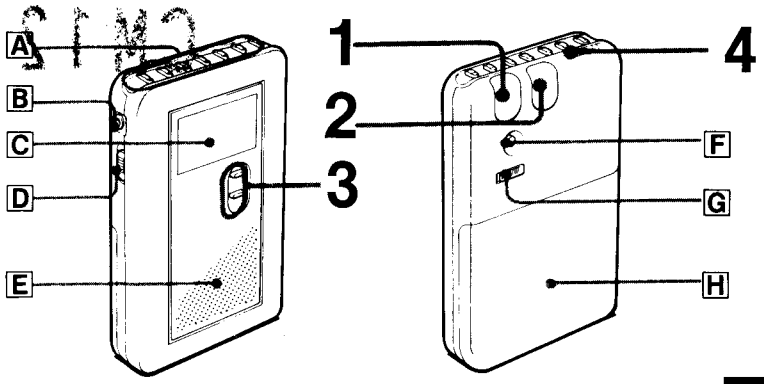
MICROFILM

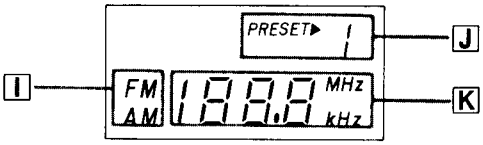
FM/AM 2 BAND PLL SYNTHESIZED RECEIVER

SONY®

TR

RADIO OPERATION 1





1 Press the POWER/AUTO OFF switch to turn on the power.

2 Select FM or AM with the BAND selector.

3 Tune in a desired station with the SCAN buttons.

SCAN + – Press to tune in a higher frequency / Press to tune in a lower frequency

At the high or low end of the frequency spectrum, the continuous beep sounds.

4 Adjust the VOL (volume) control.

To turn off the radio, press the POWER/AUTO OFF switch again.

Front panel

A Preset buttons
B (earphone) jack
C Display window
D (earphone/speaker) selector
E Speaker

Rear panel

F ENTER button
G AM SENS (sensitivity) selector
H Battery compartment

Display window

I Band indicator
J Preset number indicator
K Frequency indicator

When the power is shut off automatically
The radio will be shut off automatically in about 90 minutes to prevent unnecessary wear of the batteries.
To listen to the radio continuously, press the POWER/AUTO OFF switch again.

When the batteries become weak, the power is turned off automatically to hold the preset stations.

To tune in a station automatically
Keep either of the SCAN buttons pressed for more than 0.5 seconds, then release it.
The frequency goes up or down automatically with rapid beeps. When a station is received, the beep sound stops and a broadcast can be heard.

When the desired station cannot be received because of weak signals
Tune in manually.
Press either of the SCAN buttons, then immediately release it.
Repeat this operation until the frequency of the desired station appears.

TO IMPROVE RECEIVING CONDITION

FM
Since the earphone cord serves as an FM antenna, extend it for better reception.

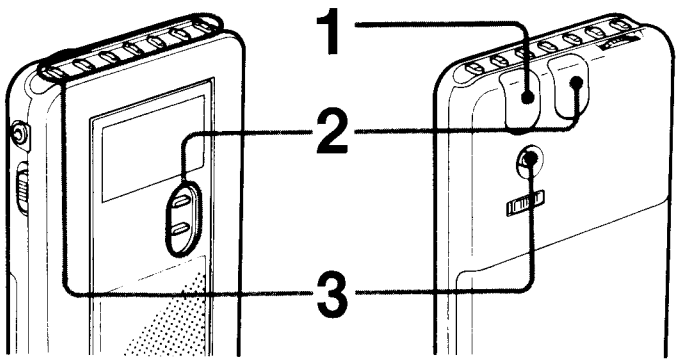
Note: Since the earphone cord serves as an FM antenna, connect the earphone even when listening to the radio from the speaker.

AM
- Since the reception is affected by the direction of the radio, rotate the radio horizontally for optimum reception.
- Usually set the AM SENS selector to DX. However, set it to LOCAL when receiving a strong-signal station, or at night when it is difficult to pick up a local station signal because adjacent signals of far-away stations are received.

MEMORY PRESET TUNING

Once you store desired stations in memory, you can tune them in by a simple operation.

HOW TO PRESET 2



1 Press the POWER/AUTO OFF switch.

2 Select FM or AM and tune in a desired station. (See "Radio operation".)

3 Press a desired preset number button while keeping the ENTER button pressed.

The station received is now stored in memory.

Repeat steps 2 and 3 for each station to be preset.

How many stations can you preset?
14 stations. (1 station for FM and AM can be preset to one preset button.)

To change the preset station
Preset a new station to a desired button; the station previously preset to the button will be lost.

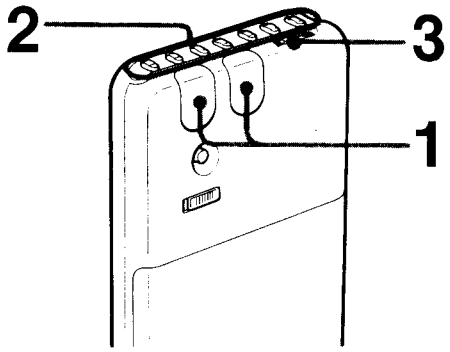
Were the preset stations lost during battery replacement?

The preset stations will be lost if new batteries are not installed within three minutes after removing the old batteries.

To replace the batteries, turn off the power and install new batteries within three minutes.

If the unit has had its batteries removed for an extended period, be sure to preset the stations again.

TO TUNE IN A PRESET STATION 3



1 Press the POWER/AUTO OFF switch and select FM or AM.

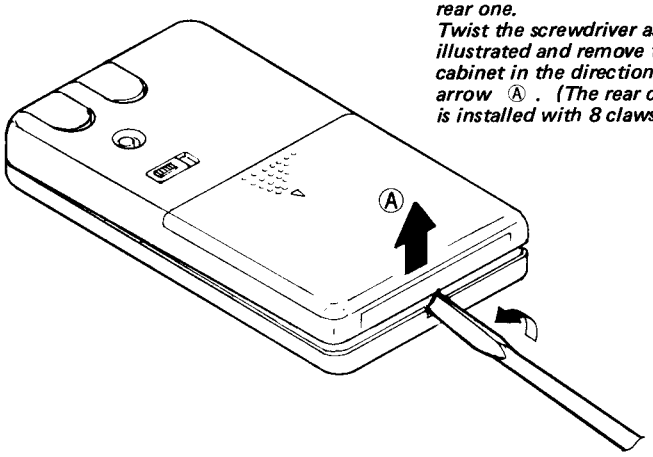
2 Press a desired preset button.

3 Adjust the VOL control.

SECTION 1
DISASSEMBLY

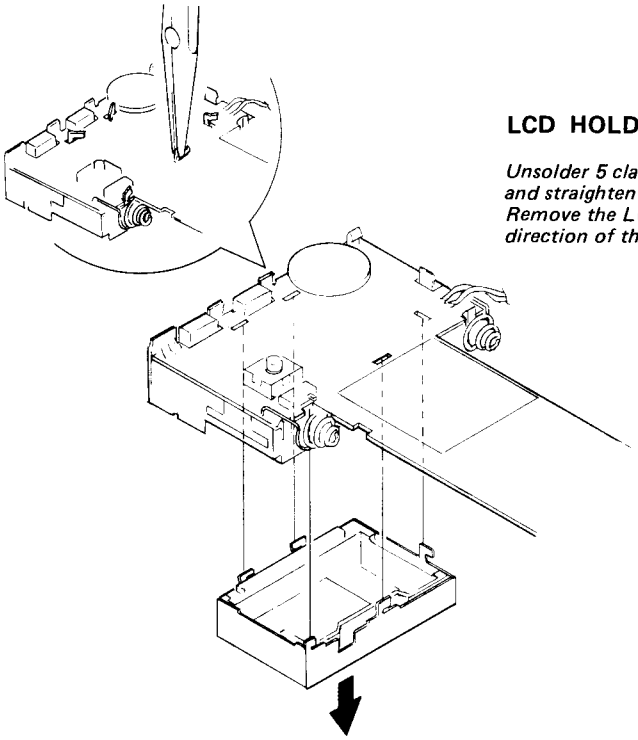
REAR CABINET REMOVAL

Insert the blade screwdriver between front cabinet and rear one.
Twist the screwdriver as illustrated and remove the rear cabinet in the direction of the arrow Ⓐ . (The rear cabinet is installed with 8 claws.)



LCD HOLDER REMOVAL

Unsolder 5 claws of LCD holder and straighten the claws.
Remove the LCD holder in the direction of the arrow.



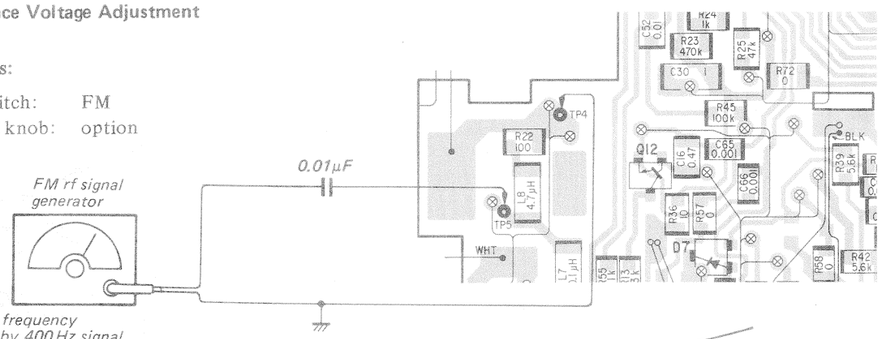
SECTION 2
ELECTRICAL ADJUSTMENTS

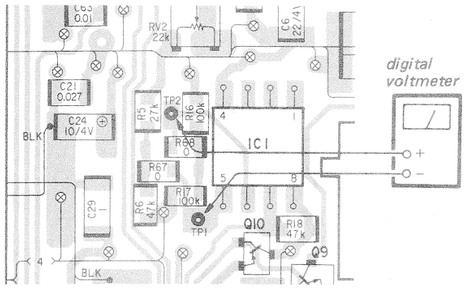
FM SECTION

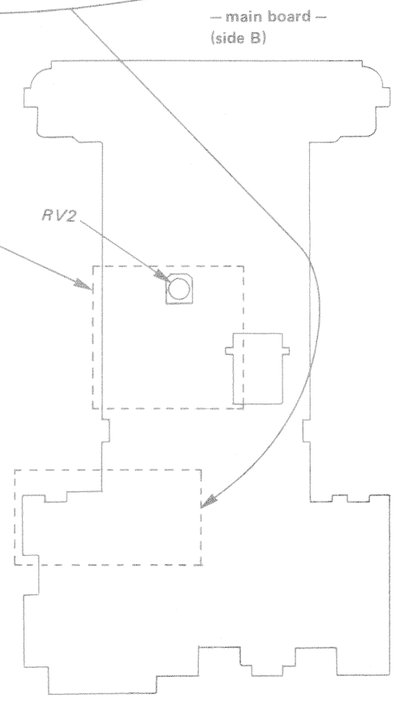
FM Reference Voltage Adjustment

Conditions:

BAND switch: FM
VOLUME knob: option







Procedure:

1. Tune the set to 90*MHz.
2. Adjust RV2 for 0V reading on digital voltmeter.

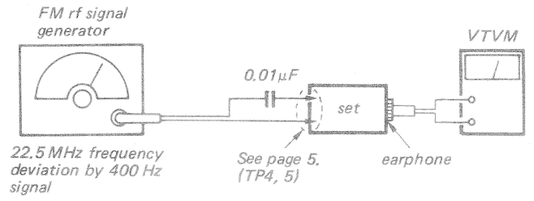
* The frequency display is raised or lowered by steps of 0.1MHz. (Example: Frequency 90.05MHz is displayed as "90.0MHz".)

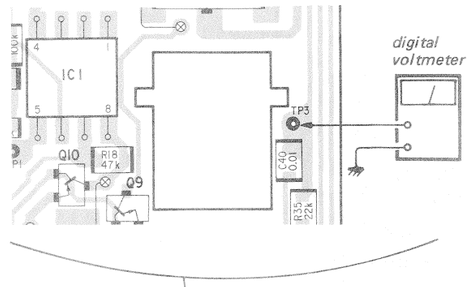
Note: Be sure to perform "FM tracking adjustment" after "FM frequency coverage adjustment".

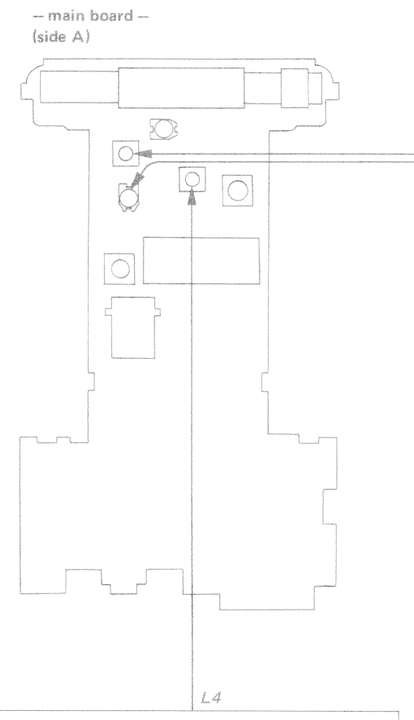
FM Frequency Coverage Adjustment/FM Tracking Adjustment

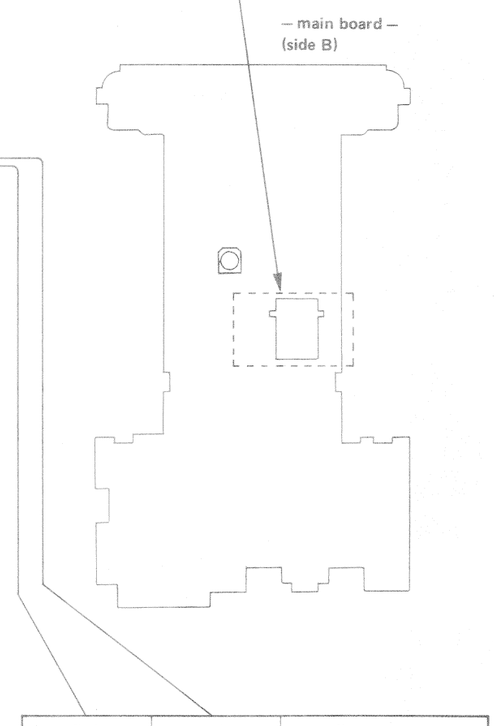
Conditions:

BAND switch: FM
VOLUME knob: option









FM Frequency Coverage Adjustment

Procedure:

1. Tune the set to 108 MHz.
2. Adjust L4 for 10V reading on digital voltmeter.
3. Tune the set to 87.5 MHz.
4. To check that reading on digital voltmeter is more than 1V.

Note: Not use the FM rf signal generator in this adjustment.

CT2	L3	Adjustment parts
87.5 MHz	108 MHz	SG and set frequency
Adjust for maximum reading on VTVM.		
FM Tracking Adjustment		

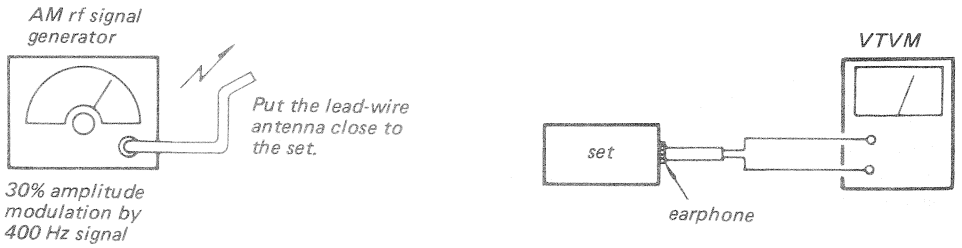
• Repeat the procedures in this adjustment several times, and this adjustment should be finally done by the trimmer capacitors.

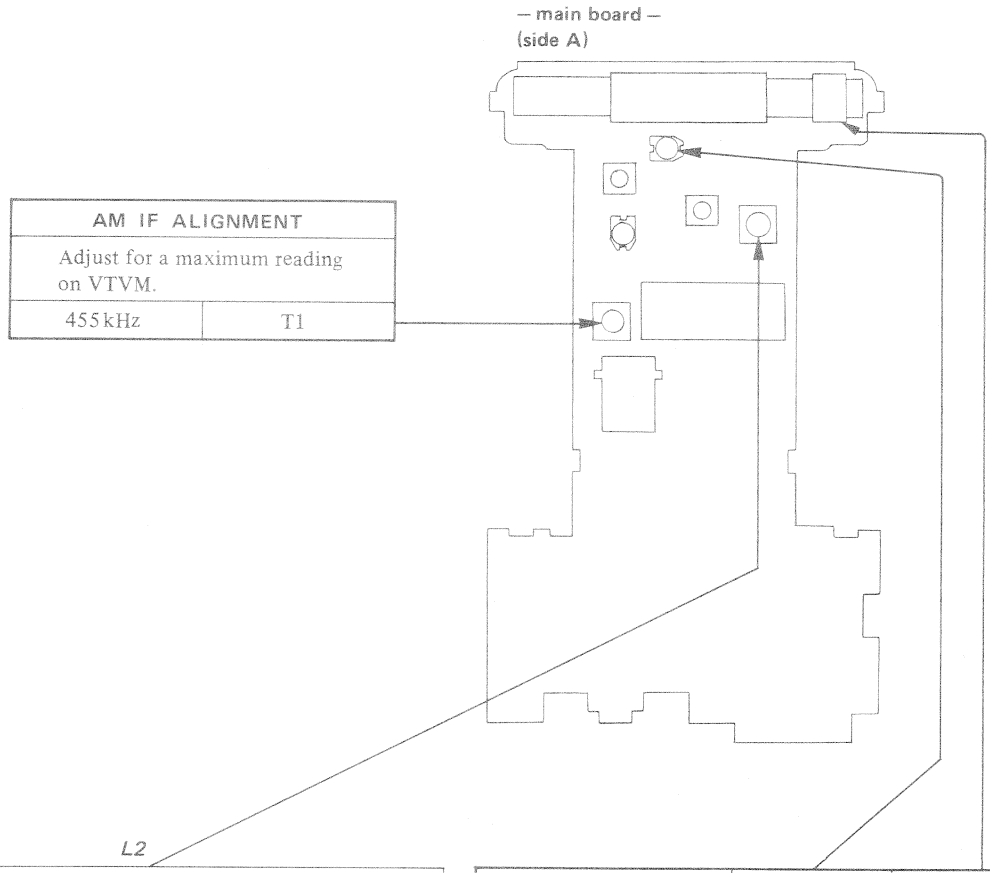
AM SECTION

Note: Be sure to perform "AM tracking adjustment" after "AM frequency coverage adjustment".

Conditions:

BAND switch: AM
VOLUME knob: option





AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
455 kHz	T1

AM Frequency Coverage Adjustment

Conditions:

1. Tune the set to 1,602 kHz.
2. Adjust L2 for 8V reading on digital voltmeter. (See page 6 for connection diagram.)
3. Tune the set to 531 kHz.
4. To check that reading on digital voltmeter is more than 1V.

Note: Not use the AM rf signal generator in this adjustment.

Adjustment parts	CT1	L1
SG and set frequency	1,413 kHz	585 kHz
Adjust for a maximum reading on VTVM.		
AM Tracking Adjustment		

- Repeat the procedures in this adjustment several times, and this adjustment should be finally done by the trimmer capacitors.

SECTION 3
DIAGRAMS

3-1. Mounting Diagram

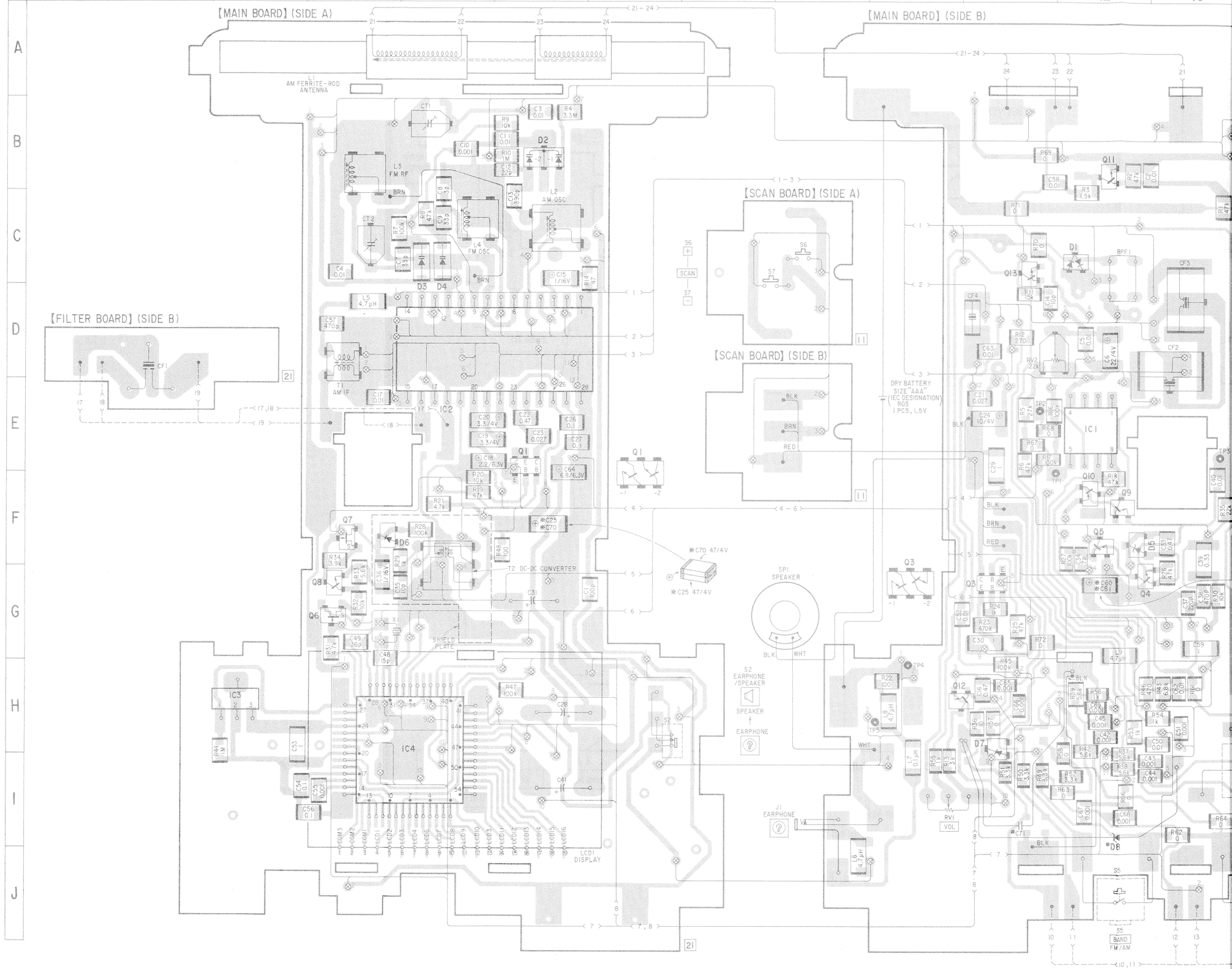
● See page 13 for Semiconductor Lead Layouts.

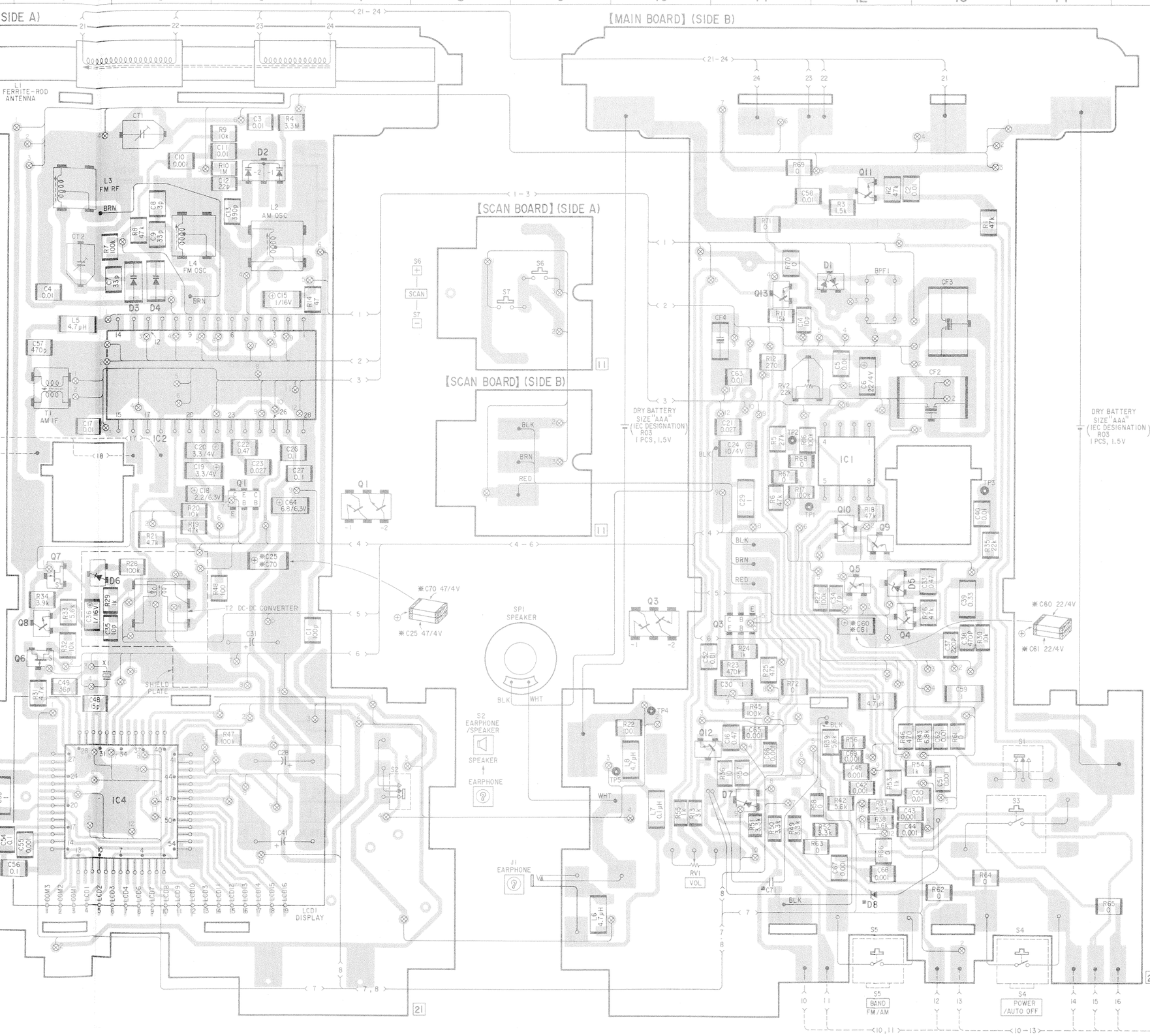
Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- [ ]— : indicates side identified with part number.
- ⊗ : Through hole.
- ⊗1 : Reference numbers of through hole coincide between side A and side B.

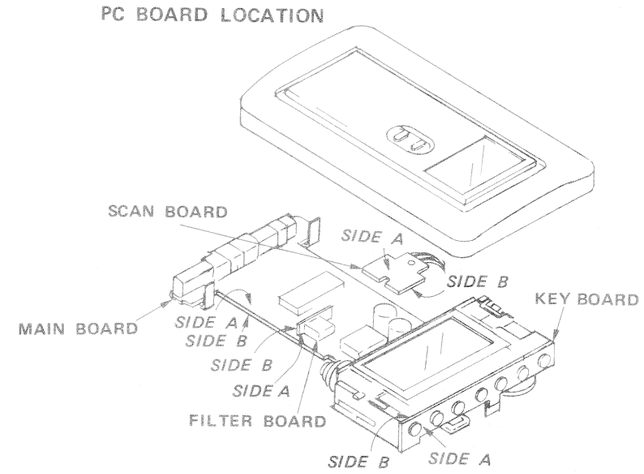
● Semicondactor Location

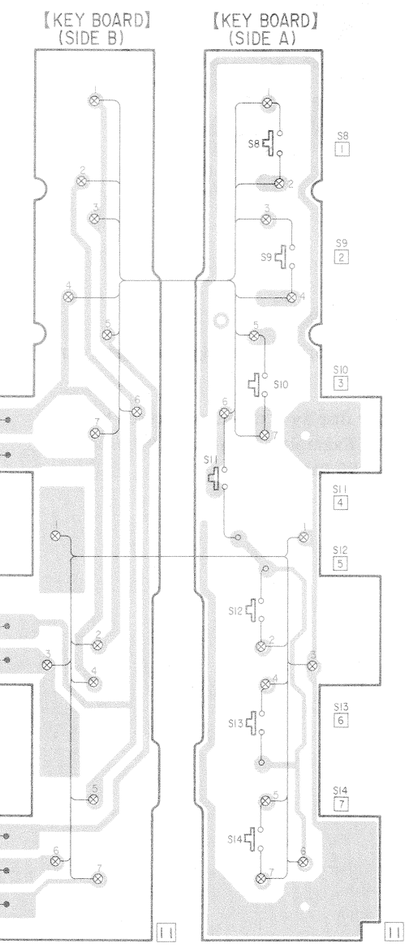
Ref. No.	Location
D1	C-12
D2	B-6
D3	D-5
D4	D-5
D5	F-12
D6	F-5
D7	H-11
D8	I-12
IC1	E-12
IC2	E-5
IC3	H-3
IC4	H-5
Q1	E-6
Q3	G-11
Q4	G-12
Q5	F-12
Q6	G-4
Q7	F-4
Q8	G-4
Q9	F-12
Q10	F-12
Q11	B-12
Q12	H-10
Q13	C-11



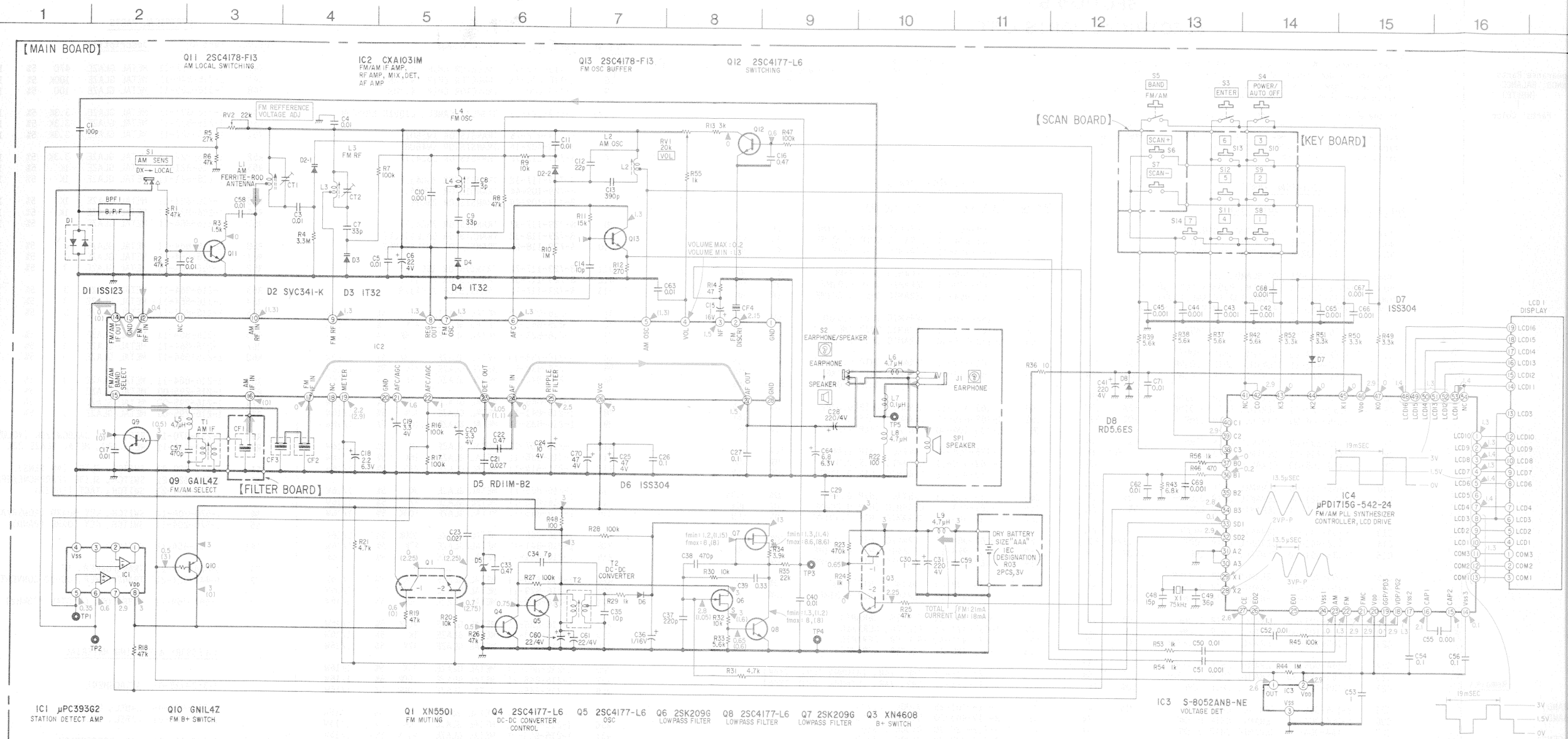


PC BOARD LOCATION





3-2. Schematic Diagram



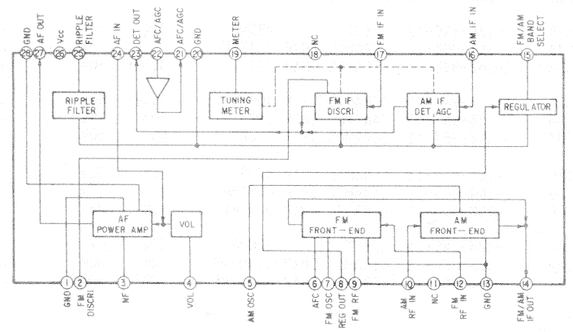
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▬▶ : FM signal path.
- ▬▶ : AM signal path.
- ▬ : B+ bus.
- ▭ : adjustment for repair.
- Power voltage is 3V and fed with regurated dc power supply from battery terminal.
  Voltages are dc with respect to ground under no-signal (detuned) conditions.
  Voltage variations may be noted due to normal production tolerances.
  no mark: FM
  ( ): AM
- Waveforms are taken to ground under no-signal (detuned) conditions by using oscilloscope.
  Voltage variations may be noted due to normal production tolerances.

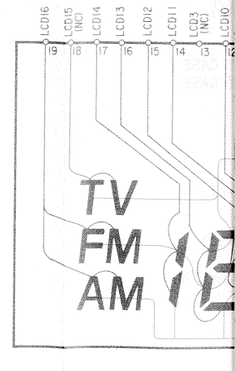
- Switches:

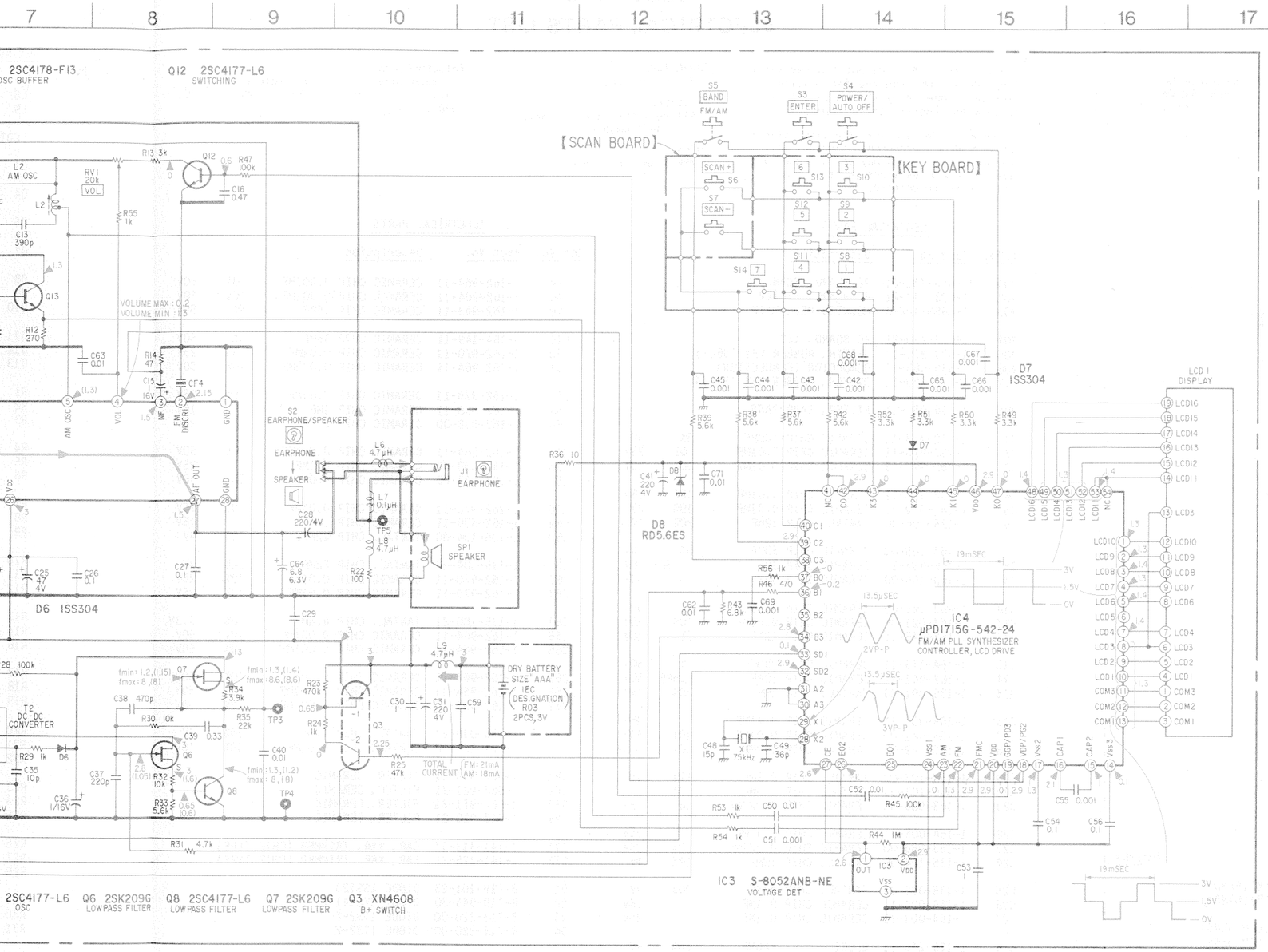
Ref. No.	Switch	Position
S1	AM SENSE	DX
S2	earphone/speaker	earphone
S3	ENTER	OFF
S4	POWER/AUTO OFF	OFF
S5	BAND FM/AM	OFF
S6	SCAN +	OFF
S7	SCAN -	OFF
S8	1	OFF
S9	2	OFF
S10	3	OFF
S11	4	OFF
S12	5	OFF
S13	6	OFF
S14	7	OFF

IC2 CXA1031M



- LCD1

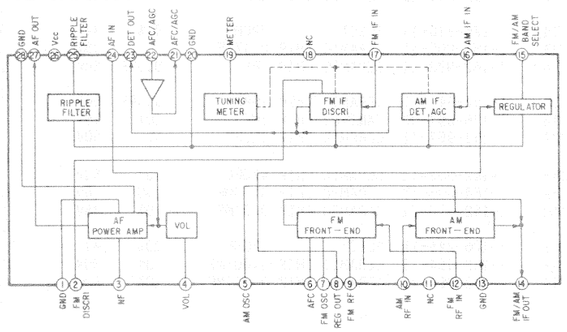




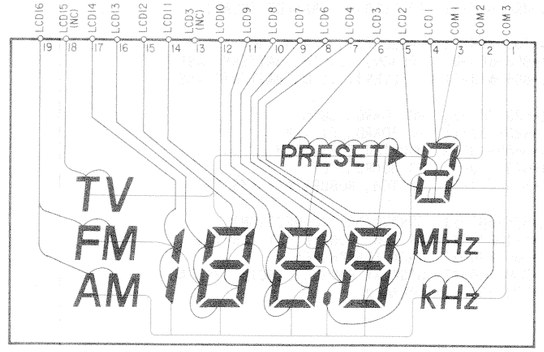
- Switches:

Ref. No.	Switch	Position
S1	AM SENSE	DX
S2	earphone/speaker	earphone
S3	ENTER	OFF
S4	POWER/AUTO OFF	OFF
S5	BAND FM/AM	OFF
S6	SCAN +	OFF
S7	SCAN -	OFF
S8	1	OFF
S9	2	OFF
S10	3	OFF
S11	4	OFF
S12	5	OFF
S13	6	OFF
S14	7	OFF

IC2 CXA1031M

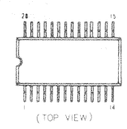


- LCD1



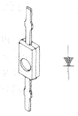
- Semiconductor Lead Layouts

CXA1031M

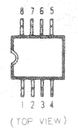


2SK94

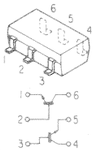
1T32-2



µPC393G2

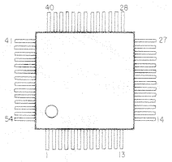


XN4608

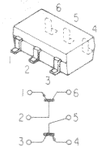


RD5.6ES-B

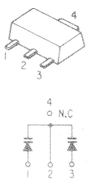
µPD1715G-534-24



XN5501

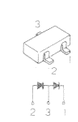


SVC341-K



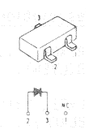
S-8052ANB-S

1SS123



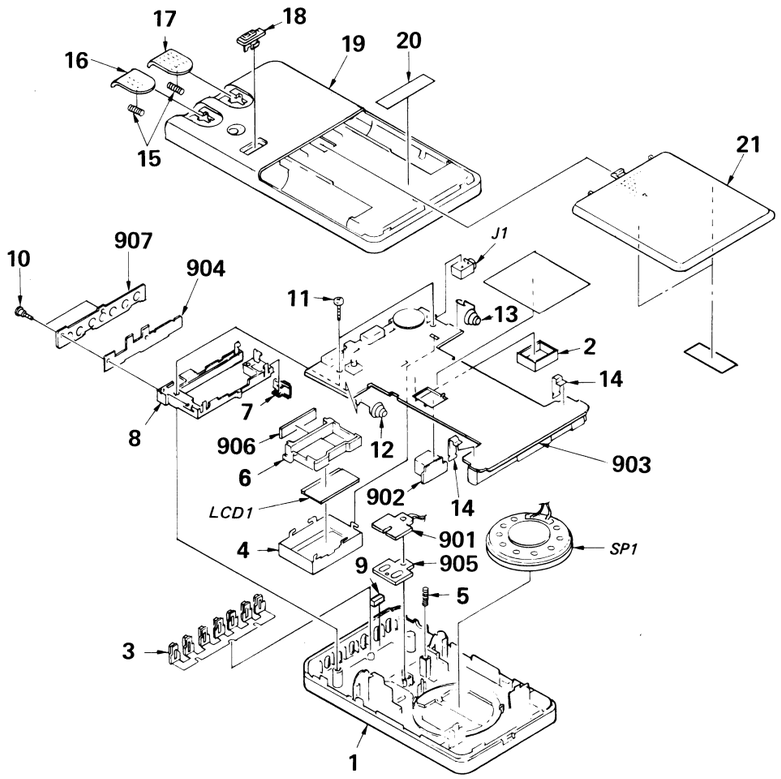
2SC4177
2SC4178
GA1L4Z-L62
GN1L4Z-M62

1SS304
RD11M-B2



SECTION 4
EXPLODED VIEW AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color Indication of Appearance Parts
  Example: (RED) ..... KNOB, BALANCE (WHITE)
  (RED) = Cabinet's Color; (WHITE) = Parts' Color



No.	Part No.	Description	Remarks
1	X-3896-625-1	(BLACK)....CABI FRONT ASSY	
	X-3896-627-1	(SILVER)...CABI FRONT ASSY	
2	*3-896-659-01	PLATE, SHIELD	
3	X-3896-620-1	(BLACK)....BUTTON (A) ASSY	
	X-3896-622-1	(SILVER)...BUTTON (A) ASSY	
4	*3-896-658-01	HOLDER (A)	
5	3-896-675-01	SPRING, COMPRESSION	
6	*3-896-673-01	HOLDER (B)	
7	3-896-649-01	(BLACK)....KNOB (A)(EARPHONE/SPEAKER)	
	3-896-649-11	(SILVER)...KNOB (A)(EARPHONE/SPEAKER)	
8	*3-896-662-01	CHASSIS	
9	9-911-839-XX	CUSHION, LED	
10	3-896-655-01	SCREW (1.4), TAPPING	
11	3-318-203-31	SCREW (B1.7X8), TAPPING	
12	3-896-656-01	SPRING (A)	
13	3-896-657-01	SPRING (B)	
14	3-896-661-01	TERMINAL BOARD, BATTERY	
15	3-896-660-01	SPRING, COMPRESSION	
16	3-896-652-11	BUTTON (B)(POWER)	
17	3-896-652-01	(BLACK)....BUTTON (B)(BAND)	
	3-896-652-21	(SILVER)...BUTTON (B)(BAND)	
18	3-896-650-01	(BLACK)....KNOB (B)(AM SENS)	
	3-896-650-11	(SILVER)...KNOB (B)(AM SENS)	
19	3-896-665-21	(BLACK)....CABINET (REAR)	
	3-896-665-31	(SILVER)...CABINET (REAR)	
20	3-703-264-11	LABEL (B), SERIAL NO	
21	3-896-663-01	(BLACK)....LID, BATTERY CASE	
	3-896-663-11	(SILVER)...LID, BATTERY CASE	
901	*1-623-731-21	PC BOARD, SCAN	
902	*1-623-732-21	PC BOARD, FILTER	
903	A-3689-102-A	MOUNTED PCB, MAIN	
904	1-623-730-21	PC BOARD, KEY	
905	1-571-271-11	SWITCH, RUBBER KEY (S6.7)	
906	1-535-683-11	CONDUCTOR (CONNECTION)	
907	1-571-270-11	SWITCH, RUBBER KEY (S8-14)	
J1	1-566-896-11	JACK (EARPHONE)	
LCD1	1-808-124-11	DISPLAY PANEL, LIQUID CRYSTAL	
SP1	1-503-854-11	SPEAKER	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description		
901	*1-623-731-21	PC BOARD, SCAN		
902	*1-623-732-21	PC BOARD, FILTER		
903	A-3689-102-A	MOUNTED PCB, MAIN		
904	1-623-730-21	PC BOARD, KEY		
905	1-571-271-11	SWITCH, RUBBER KEY (S6.7)		
906	1-535-683-11	CONDUCTOR (CONNECTION)		
907	1-571-270-11	SWITCH, RUBBER KEY (S8-14)		
BPF1	1-236-053-11	FILTER, BAND PASS		
C1	1-162-953-11	CERAMIC CHIP 100PF	5%	50V
C2	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C3	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C4	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C5	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C6	1-135-104-00	TANTAL. CHIP 22MF	20%	4V
C7	1-163-105-00	CERAMIC CHIP 33PF	5%	50V
C8	1-162-934-11	CERAMIC CHIP 3PF	0.25PF	50V
C9	1-163-105-00	CERAMIC CHIP 33PF	5%	50V
C10	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V
C11	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C12	1-162-945-11	CERAMIC CHIP 22PF	5%	50V
C13	1-164-145-11	CERAMIC CHIP 390PF	5%	50V
C14	1-162-941-11	CERAMIC CHIP 10PF	0.5PF	50V
C15	1-135-091-00	TANTAL. CHIP 1MF	10%	16V
C16	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C17	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C18	1-135-099-00	TANTAL. CHIP 2.2MF	10%	6.3V
C19	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C20	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C21	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V
C22	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C23	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V
C24	1-135-104-00	TANTAL. CHIP 10MF	10%	4V
C25	1-135-098-21	TANTAL. CHIP 47MF	20%	4V
C26	1-164-004-11	CERAMIC CHIP 0.1MF		25V
C27	1-164-004-11	CERAMIC CHIP 0.1MF		25V
C28	1-126-246-11	ELECT 220MF	20%	4V
C29	1-162-638-11	CERAMIC CHIP 1MF		16V
C30	1-162-638-11	CERAMIC CHIP 1MF		16V
C31	1-126-210-11	ELECT 220MF	20%	4V
C33	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C34	1-162-938-11	CERAMIC CHIP 7PF	0.5PF	50V
C35	1-162-941-11	CERAMIC CHIP 10PF	0.5PF	50V
C36	1-135-091-00	TANTAL. CHIP 1MF	10%	16V
C37	1-162-957-11	CERAMIC CHIP 220PF	5%	50V
C38	1-162-962-11	CERAMIC CHIP 470PF	10%	50V
C39	1-164-006-11	CERAMIC CHIP 0.33MF	10%	16V
C40	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C41	1-126-246-11	ELECT 220MF	20%	4V
C42	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C43	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description		
C44	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C45	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C48	1-162-943-11	CERAMIC CHIP 15PF	5%	50V
C49	1-164-149-11	CERAMIC CHIP 36PF	5%	50V
C50	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C51	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C52	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C53	1-162-638-11	CERAMIC CHIP 1MF		16V
C54	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C55	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C56	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C57	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C58	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C59	1-162-638-11	CERAMIC CHIP 1MF		16V
C60	1-135-104-00	TANTAL. CHIP 22MF	20%	4V
C61	1-135-104-00	TANTAL. CHIP 22MF	20%	4V
C62	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C63	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C64	1-135-100-21	TANTAL. CHIP 6.8MF	10%	6.3V
C65	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C66	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C67	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C68	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C69	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C70	1-135-098-21	TANTAL. CHIP 47MF	20%	4V
C71	1-161-379-00	CERAMIC CHIP 0.01MF	30%	16V
CF1	1-567-919-11	FILTER, CERAMIC		
CF2	1-567-921-21	FILTER, CERAMIC		
CF3	1-567-921-21	FILTER, CERAMIC		
CF4	1-567-920-21	FILTER, CERAMIC		
CT1	1-141-313-11	CAP, VAR, TRIMMER (CHIP TYPE)		
CT2	1-141-325-11	CAP, VAR, TRIMMER (CHIP TYPE)		
D1	8-719-101-23	DIODE 1SS123		
D2	8-719-945-30	DIODE SVC341-K		
D3	8-713-220-00	DIODE 1T32-2		
D4	8-713-220-00	DIODE 1T32-2		
D5	8-719-106-62	DIODE RD11M-B2		
D6	8-719-123-85	DIODE 1SS304		
D7	8-719-123-85	DIODE 1SS304		
D8	8-719-109-87	DIODE RD5.6ES-B		
IC1	8-759-100-93	IC UPC393G2		
IC2	8-752-030-47	IC CXA1031M		
IC3	8-759-945-21	IC S-8052ANB-S		
IC4	8-759-140-39	IC UPD1715G-534-24		
J1	1-566-896-11	JACK (EARPHONE)		
L1	1-402-323-11	ANTENNA, FERRITE-ROD (MW)		
L2	1-406-258-21	COIL (OSC)		
L3	1-459-818-11	COIL (WITH CORE)		
L4	1-459-785-21	COIL (WITH CORE)		
L5	1-410-200-31	INDUCTOR CHIP 4.7UH		
L6	1-410-200-31	INDUCTOR CHIP 4.7UH		

ELECTRICAL PARTS

Ref.No.	Part No.	Description
L7	1-410-180-41	INDUCTOR CHIP 0.1UH
L8	1-410-200-31	INDUCTOR CHIP 4.7UH
L9	1-410-200-31	INDUCTOR CHIP 4.7UH
LCD1	1-808-124-11	DISPLAY PANEL, LIQUID CRYSTAL
Q1	8-729-402-75	TRANSISTOR XN5501
Q3	8-729-402-16	TRANSISTOR XN4608
Q4	8-729-117-32	TRANSISTOR 2SC4177
Q5	8-729-117-32	TRANSISTOR 2SC4177
Q6	8-729-109-44	TRANSISTOR 2SK94
Q7	8-729-109-44	TRANSISTOR 2SK94
Q8	8-729-117-32	TRANSISTOR 2SC4177
Q9	8-729-118-12	TRANSISTOR GA1L4Z-L62
Q10	8-729-118-21	TRANSISTOR GN1L4Z-M62
Q11	8-729-117-72	TRANSISTOR 2SC4178
Q12	8-729-117-32	TRANSISTOR 2SC4177
Q13	8-729-117-72	TRANSISTOR 2SC4178
R1	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R2	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R3	1-216-823-11	METAL GLAZE 1.5K 5% 1/16W
R4	1-216-133-00	METAL GLAZE 3.3M 5% 1/10W
R5	1-216-838-11	METAL GLAZE 27K 5% 1/16W
R6	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R7	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R8	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R9	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R10	1-216-857-11	METAL GLAZE 1M 5% 1/16W
R11	1-216-835-11	METAL GLAZE 15K 5% 1/16W
R12	1-216-814-11	METAL GLAZE 270 5% 1/16W
R13	1-216-865-11	METAL GLAZE 3K 5% 1/16W
R14	1-216-805-11	METAL GLAZE 47 5% 1/16W
R16	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R17	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R18	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R19	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R20	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R21	1-216-829-11	METAL GLAZE 4.7K 5% 1/16W
R22	1-216-809-11	METAL GLAZE 100 5% 1/16W
R23	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R24	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R25	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R26	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R27	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R28	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R29	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R30	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R31	1-216-829-11	METAL GLAZE 4.7K 5% 1/16W
R32	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R33	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W
R34	1-216-828-11	METAL GLAZE 3.9K 5% 1/16W
R35	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R36	1-216-797-11	METAL GLAZE 10 5% 1/16W
R37	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W
R38	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W
R39	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W
R42	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W
R43	1-216-831-11	METAL GLAZE 6.8K 5% 1/16W
R44	1-216-857-11	METAL GLAZE 1M 5% 1/16W
R45	1-216-845-11	METAL GLAZE 100K 5% 1/16W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R46	1-216-817-11	METAL GLAZE 470 5% 1/16W
R47	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R48	1-216-809-11	METAL GLAZE 100 5% 1/16W
R49	1-216-827-11	METAL GLAZE 3.3K 5% 1/16W
R50	1-216-827-11	METAL GLAZE 3.3K 5% 1/16W
R51	1-216-827-11	METAL GLAZE 3.3K 5% 1/16W
R52	1-216-827-11	METAL GLAZE 3.3K 5% 1/16W
R53	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R54	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R55	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R56	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R57	1-216-864-11	METAL GLAZE 0 5% 1/16W
R58	1-216-864-11	METAL GLAZE 0 5% 1/16W
R61	1-216-864-11	METAL GLAZE 0 5% 1/16W
R62	1-216-864-11	METAL GLAZE 0 5% 1/16W
R63	1-216-864-11	METAL GLAZE 0 5% 1/16W
R64	1-216-864-11	METAL GLAZE 0 5% 1/16W
R65	1-216-864-11	METAL GLAZE 0 5% 1/16W
R66	1-216-864-11	METAL GLAZE 0 5% 1/16W
R67	1-216-864-11	METAL GLAZE 0 5% 1/16W
R68	1-216-864-11	METAL GLAZE 0 5% 1/16W
R69	1-216-864-11	METAL GLAZE 0 5% 1/16W
R70	1-216-295-00	METAL GLAZE 0 5% 1/10W
R71	1-216-295-00	METAL GLAZE 0 5% 1/10W
R72	1-216-295-00	METAL GLAZE 0 5% 1/10W
RV1	1-237-870-11	RES, VAR, CARBON 20K (VOLUME)
RV2	1-237-119-11	RES, ADJ, METAL GLAZE 22K
S1	1-571-120-21	SWITCH, SLIDE (AM SENS)
S2	1-571-120-21	SWITCH, SLIDE (EARPHONE/SPEAKER)
S3	1-554-371-21	SWITCH, TACT (ENTER)
S4	1-570-204-11	SWITCH, KEY BOARD (POWER/AUTO OFF)
S5	1-570-204-11	SWITCH, KEY BOARD (BAND)
SP1	1-503-854-11	SPEAKER
T1	1-404-759-21	TRANSFORMER, IF
T2	1-449-021-21	TRANSFORMER, DC-DC CONVERTER
X1	1-567-769-11	VIBRATOR, CRYSTAL (75kHz)

ACCESSORY & PACKING MATERIAL

2-357-928-01	ATTACHMENT
3-703-906-01	LABEL, COLOR
3-703-921-01	LABEL, COLOR
3-892-526-01	BAG, PROTECTION
3-896-683-01	CASE, CARRYING
3-896-687-01	INDIVIDUAL CARTON
3-990-127-11	MANUAL, INSTRUCTION
3-990-127-41	MANUAL, INSTRUCTION
8-952-277-90	EARPHONE MDR-E111 SET

9-953-015-11

Sony Corporation
Audio Group

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